GOVERNMENT OF INDIA
NEW AND RENEWABLE ENERGY
LOK SABHA

UNSTARRED QUESTION NO:1952
ANSWERED ON:05.05.2016
Per Unit Cost of Renewable Energy
Lekhi Smt. Meenakashi;Rai Shri Prem Das

Will the Minister of NEW AND RENEWABLE ENERGY be pleased to state:

(a) the details of the per unit cost of renewable energy, especially solar energy;

(b) whether thermal or other power plants are required on stand by due to the intermittent and unpredictable nature of solar power;

(c) if so, the details thereof and the added costs due to this; and

(d) whether the Government plans to implement stand alone renewable energy projects which do not feed into the grid, if so, the details thereof?

Answer

THE MINISTER OF STATE FOR POWER, COAL & NEW AND RENEWABLE ENERGY (INDEPENDENT CHARGE) (SHRI PIYUSH GOYAL)

(a): As per Central Electricity Regulatory Commission (CERC) order dated 29/04/2016, the per unit (kWh) cost of renewable energy power projects, including solar energy is given below:
? Solar PV: Rs.5.68 per unit
? Solar Thermal: Rs.12.07 per unit
? Wind Energy: Rs.4.13 − 6.60 per unit
? Small Hydro: Rs.3.99 − 5.54 per unit
? Biomass: Rs.7.03 − 8.47 per unit
? Biomass Gasifier: Rs.6.44 − 7.33 per unit
? Bagasse based co-generation: Rs.5.45 − 6.79 per unit
? Biogas based generation: Rs.7.68 per unit
(b)&(c): Yes, Madam.

There is requirement of power stations for balancing the grid. The extra cost will depend on the cost of power generation from the balancing stations.
(d): Yes, Madam. The Government is already supporting setting up of stand alone renewable energy projects, as off-grid and decentralized projects. Various types of off-grid applications are as follows:
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? Biomass based heat and power projects
? Industrial waste to-energy projects
? Biomass gasifiers
? Watermills/micro hydro projects
? Small Wind Energy & Hybrid Systems
? Solar PV based off-grid systems
? Family-size biogas plants
? Solar street lighting systems
? Solar lanterns and solar home lighting systems
? Solar water heating systems
? Solar cookers
? Standalone solar/ biomass based power generators
? Wind pumps
? Micro-Hydal plants

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